Consumers' Role in Health Care

Reducing Demand for Care through Chronic Disease Prevention & Health Promotion

Section of Chronic Disease Prevention & Health Promotion

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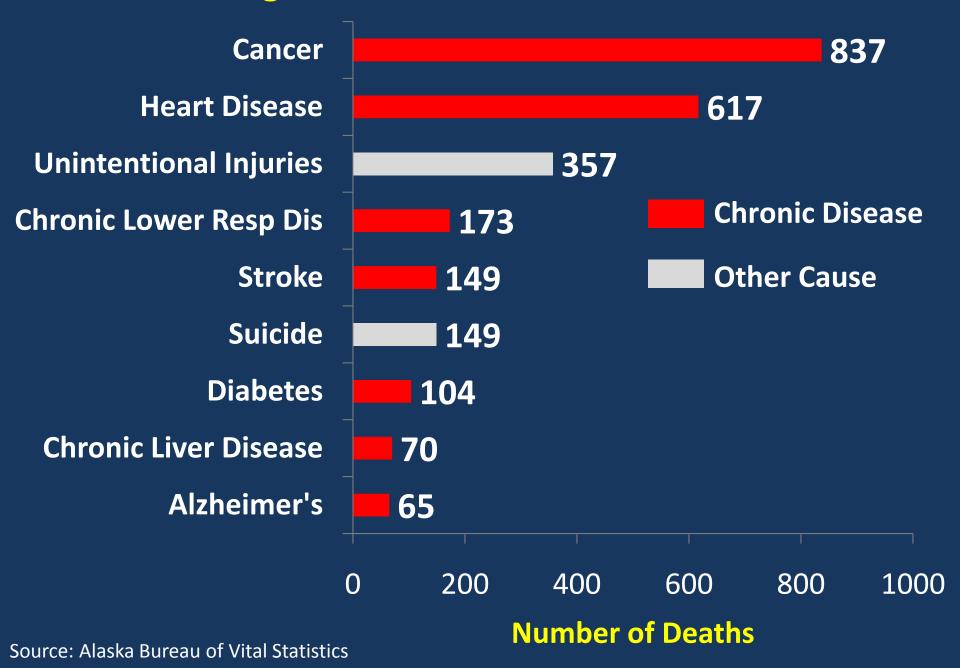
Overview

- Why be concerned about chronic disease?
- What needs to be done in order to address chronic disease?
- How should this look in Alaska?

Why Invest in **Preventing Chronic Disease?**

- Chronic illness is the leading cause of death and disability in the US
 - -7 of 10 deaths nationally
 - —6 of 10 deaths in Alaska (4 of top 5 killers)

Leading Causes of Death in Alaska - 2007

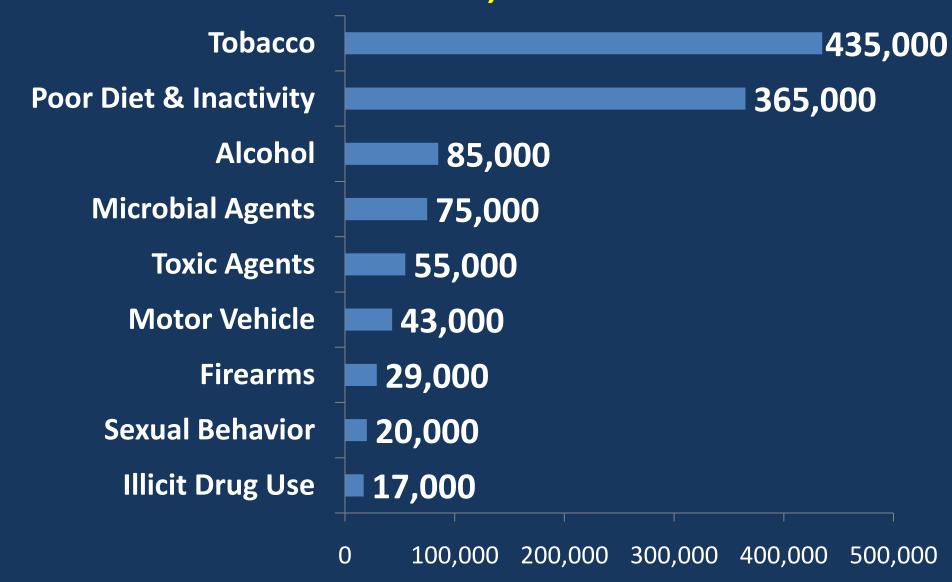


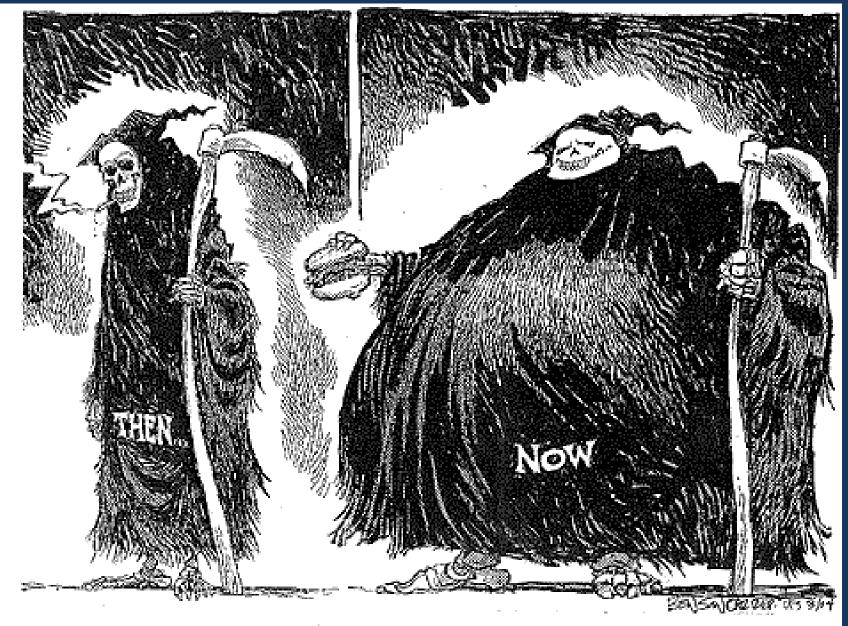
What's really killing us?

3-Four-50

- 3 risk factors (tobacco use, poor diet, inactivity) contribute to the
- 4 chronic diseases (heart disease, diabetes, lung disease, and many cancers) which are responsible for
- 50 percent of deaths in the world.

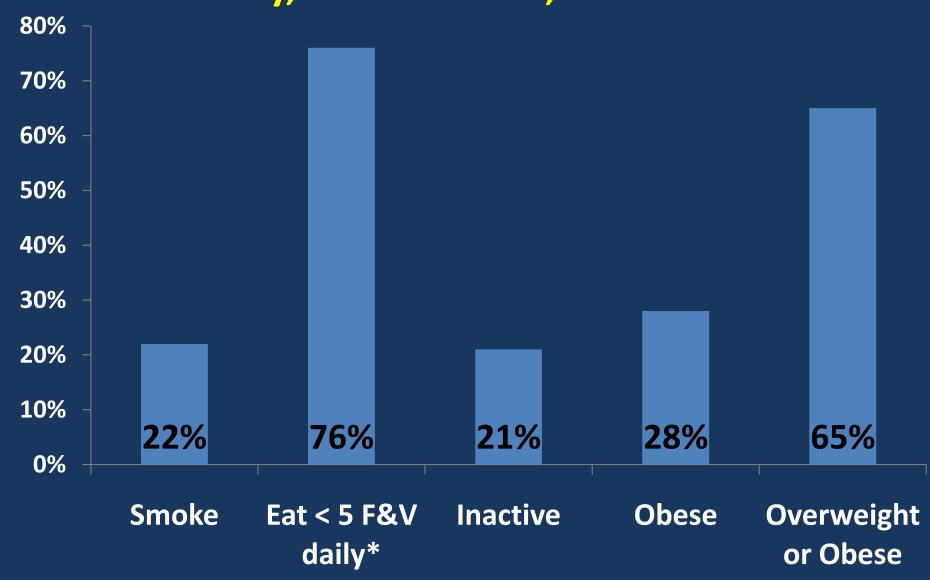
Actual Causes of Preventable Death in the US, 2000*



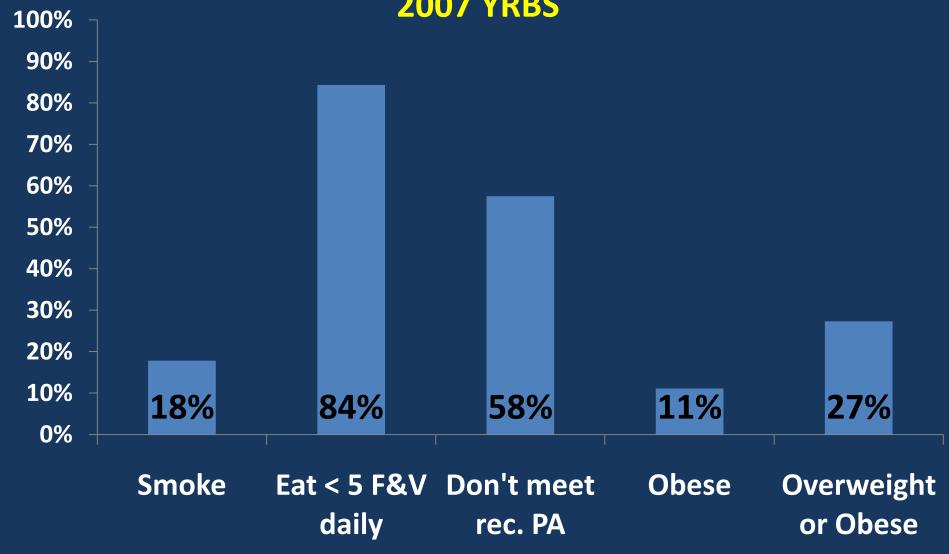


BIG TOBACCO AND BIG BURGER VIE FOR THE TITLE AS THE NATION'S NO. 1 KILLER.

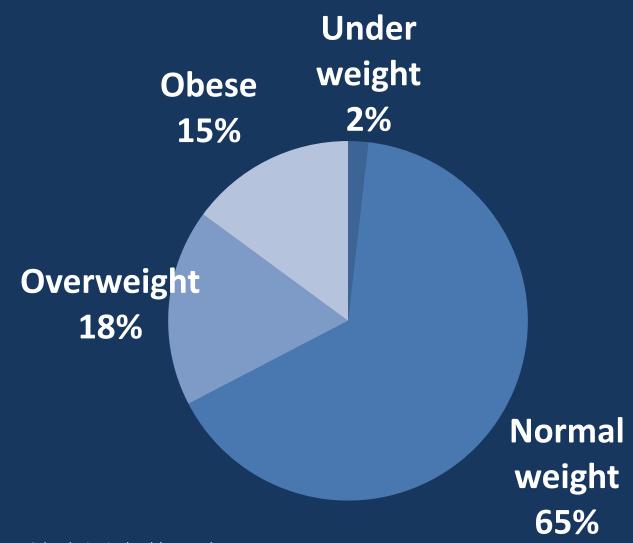
Tobacco Use, Poor Diet, Physical Inactivity & Obesity, Alaska Adults, 2008 BRFSS



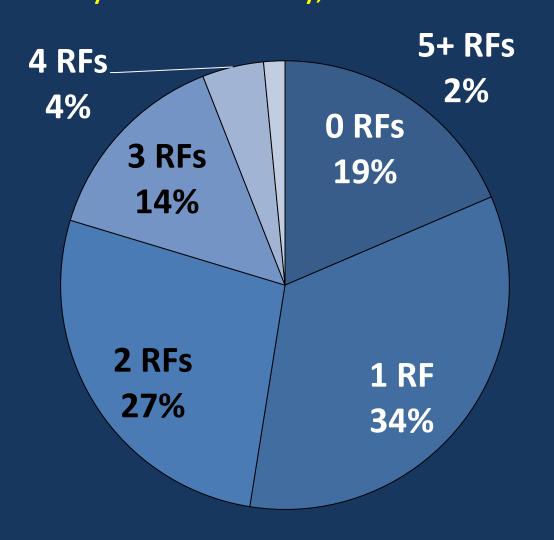
Tobacco Use, Poor Diet, Physical Inactivity & Obesity, Alaska High School Students 2007 YRBS



Weight Status, Anchorage School District Kindergarten and First Grade Students, 2007-2008



Prevalence of Multiple Risk Factors (RFs): Smoking, Hypertension, High Cholesterol, Obesity, Diabetes, & Physical Inactivity, Alaska Adults



Quality of Life & Performance Costs of Chronic Disease

- Obese Alaskans report their health status as fair or poor 2X more than normal weight (21% vs.10%)
- 72% of normal weight HS students report getting mostly A's and B's, compared to only 56% of obese
- 47% of Alaskans with diabetes have a disability, compared to 19% without diabetes

Economic Costs of Chronic Disease

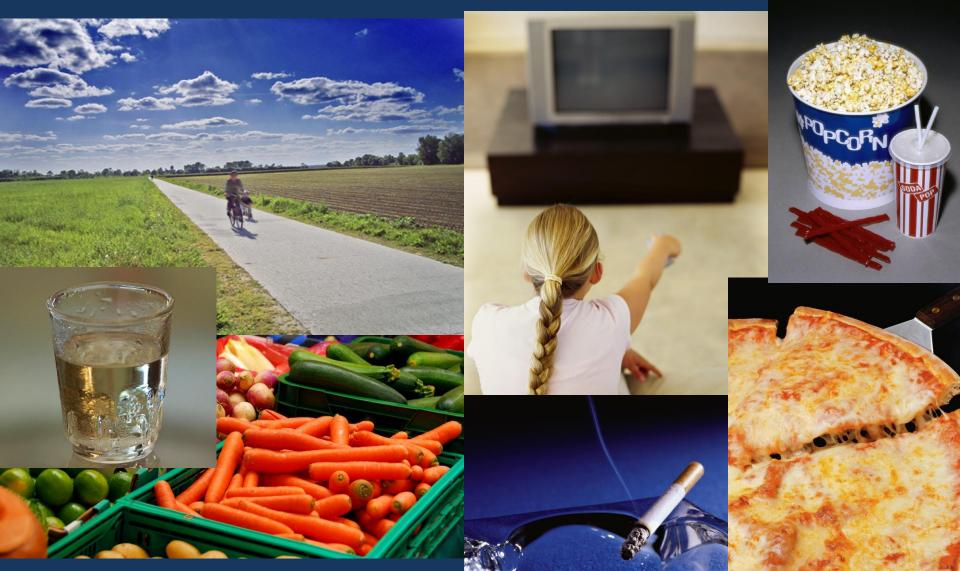
- Nationally in 2007, 75% of the \$2.2 trillion spent in total health care costs attributable to chronic disease (CMS)
- Selected annual chronic disease costs in Alaska:
 - \$600 million for heart disease & stroke hospitalization
 - \$419 million for direct and indirect diabetes costs
 - \$491 million for direct medical care related to tobacco use and lost productivity from tobacco-related deaths
 - \$477 million in direct medical costs of obesity...
 - \$9-10 million in cost attributed to obesity for State of AK Employees

Obesity's Costs

Finkelstein et al. (2009):

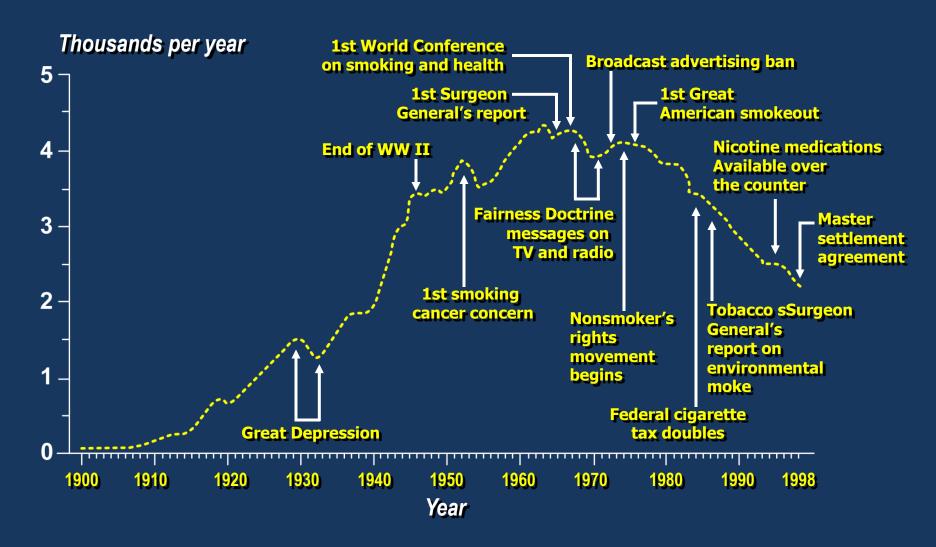
"...although health reform may be necessary to address health inequities and rein in rising health spending, real savings are more likely to be achieved through reforms that reduce the prevalence of obesity and related risk factors, including poor diet and inactivity."

What Incentivizes Behavior Change? How Do We Accomplish It?

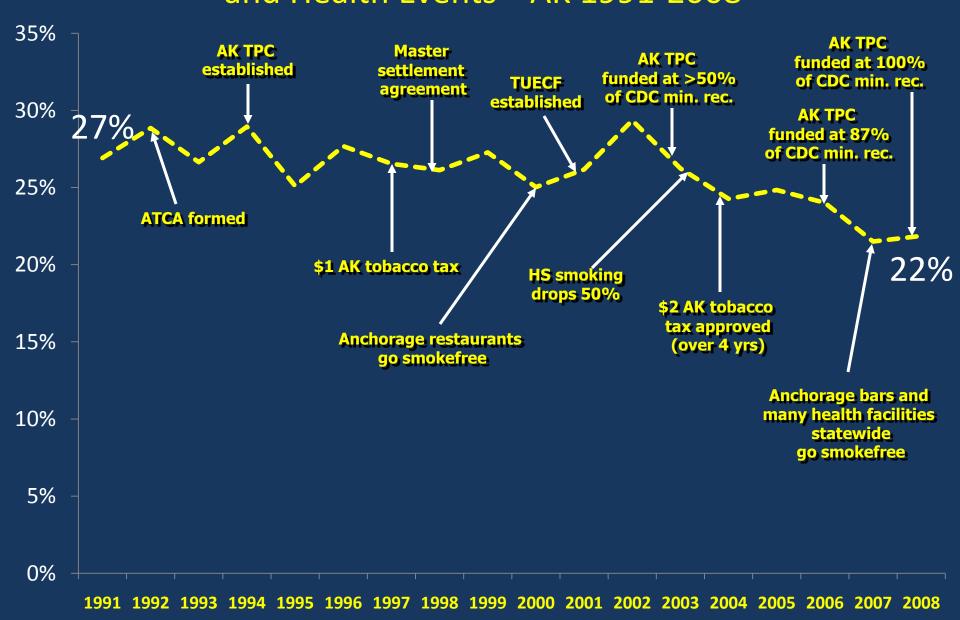


Lessons from Tobacco...

Annual Adult per Capita Cigarette Consumption and Major Smoking and Health Events – US 1900-1998



Adult Smoking Prevalence in Alaska and Major Smoking and Health Events – AK 1991-2008



What Worked for Tobacco

Price

Increasing price of tobacco

Limiting Exposure

- reducing kids' access to tobacco
- reducing secondhand smoke

Change the Image

- reducing tobacco ads targeting kids
- clearly communicating harms

From What to How

What

How

CDC Best Practices

Price

Exposure

Image

- Community Coalitions
- Cessation Support
- Media Campaign
- Evaluation
- Administration and Management

What Will Work for Obesity*

Price

- increase cost unhealthy foods
- decrease cost of healthy foods

Exposure

- Increase access to healthy foods, recreation areas
- Decrease access to junk food

Image

- reduce unhealthy food ads targeting kids
- show harms

From What to How

What

How

Price

Exposure

Image

- Community Coalitions
- Support Providers
- Media Campaign
- Evaluation
- Administration and Management

Support for Community-Based Efforts

7/24/2009 MMWR -

Recommended 24 evidence-based strategies to:

- 1. make healthy food/beverages affordable, available (6)
- 2. make the healthy food choice the easy choice (4)
- encourage breastfeeding (1)
- 4. encourage physical activity among kids (4)
- 5. create communities that support physical activity (8)
- 6. encourage communities to organize for change (1)

1. Making healthy food/beverages affordable, available: **Examples**

US example

 A new funding initiative was created using public funds to leverage supermarket development. The initiative has committed \$67 million in funding for 69 supermarket projects in 27 Pennsylvania counties, creating or preserving 3,900 jobs (Burton & Duane, 2004).

Recommendation for Alaska:

 Expand Electronic Benefits Transfer (EBT) cards use for recipients of Supplemental Nutrition Assistance Program (Food Stamps), WIC and Senior Farmer's Market Programs.

2. Make the healthy food choice the easy choice: **Examples**

US example

 A school district implemented a vending machine policy that eliminated less healthy food options and replaced them with healthier choices. Sales increased from \$9,000 to \$41,000 annually.

Recommendation for Alaska:

 Ensure that students have healthy food and beverage choices in schools by setting competitive food standards that exceed federal standards.

3. Encourage breastfeeding: Examples

US example

 The Navajo Nation Healthy Start Act requires employers to provide working mothers a place to breastfeed and unpaid time during work hours to breastfeed their children or to use a breast pump.

Recommendation for Alaska:

 Protect breastfeeding working mothers through legislation that requires employers to provide working mothers a private place to and unpaid work time to breastfeed their children or to use a breast pump

4. Encourage physical activity among kids: **Examples**

US example

 Kentucky overhauled its school-based PE curriculum. PE teachers were trained to provide quality PE and keep students physically active for at least 30-to 60-minute increments during class time.

Recommendation for Alaska:

 Statewide EED regulatory change to provide an additional mechanism enabling more teachers to obtain an endorsement as a highly qualified PE teacher

5. Create communities that support physical activity: **Examples**

<u>US example</u>

 A community enlisted a traffic engineer to help schools identify and create safe walk and bike routes between residential areas and schools. In the first 2 years of the program, the number of children walking to school increased 64%, biking 114%, and carpooling 91%.

Recommendation for Alaska:

 State government adopt a policy for designing and operating streets with safe access for all users which includes at least one element suggested by the National Complete Streets Coalition

6. Encourage communities to organize for change: Examples

US example

 A small group of local mothers formed a walking group to improve their fitness and build community. With the help of police, parks officials, and the local Chamber of Commerce, the group cleaned up a long-neglected park and reported meaningful improvements in their health.

Recommendation for Alaska:

 Provide grants to communities to develop obesity prevention coalitions and implement local strategies

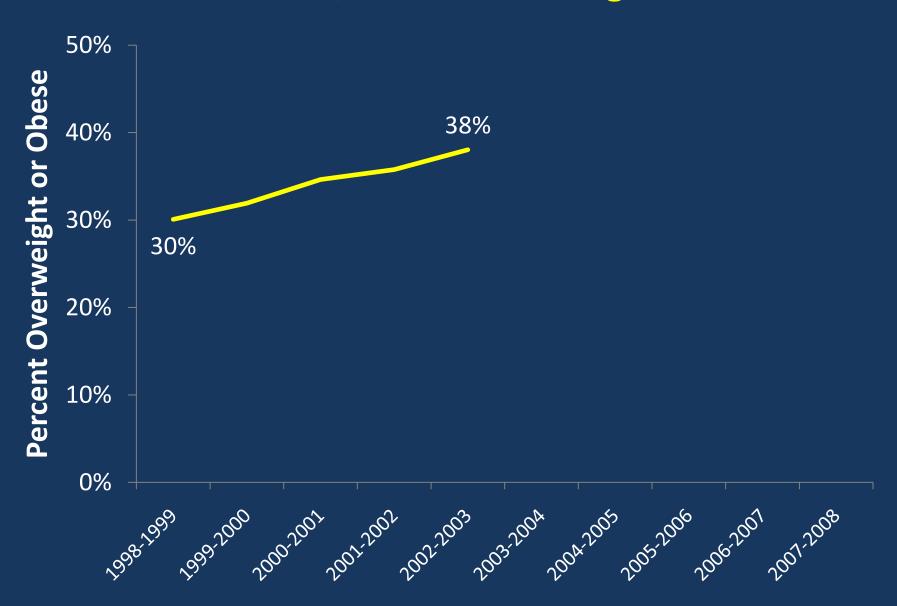
How are we doing?



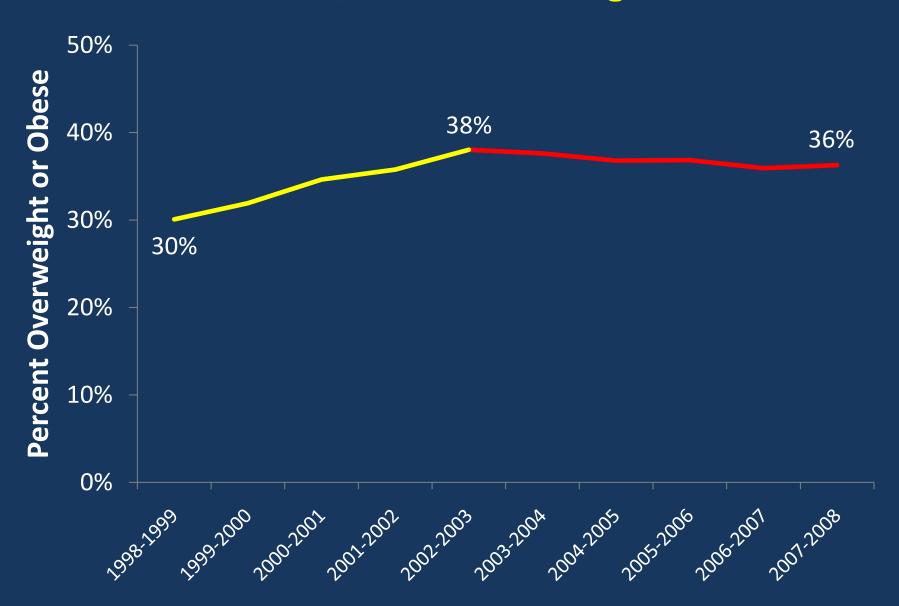
The Role of Evaluation Prevalence of Overweight and Obesity Among Anchorage School District Students: 1998-2008

- In 2003 and 2008, DPH partnered with ASD
- Trainings, equipment to collect student heights and weight, analysis
- 122,081 assessments included, representing 28% of total ASD enrollment during 1998-2008 included
- Body mass index (BMI) calculated as a non-invasive, indirect measure of percent body fat, health risk
- BMI compared with sex- and age-specific reference standards: under, normal, overweight or obese.
- Examine 10-year trends and cohort analysis

Prevalence of Overweight/Obesity, ASD Students, 1998-99 through 2002-03



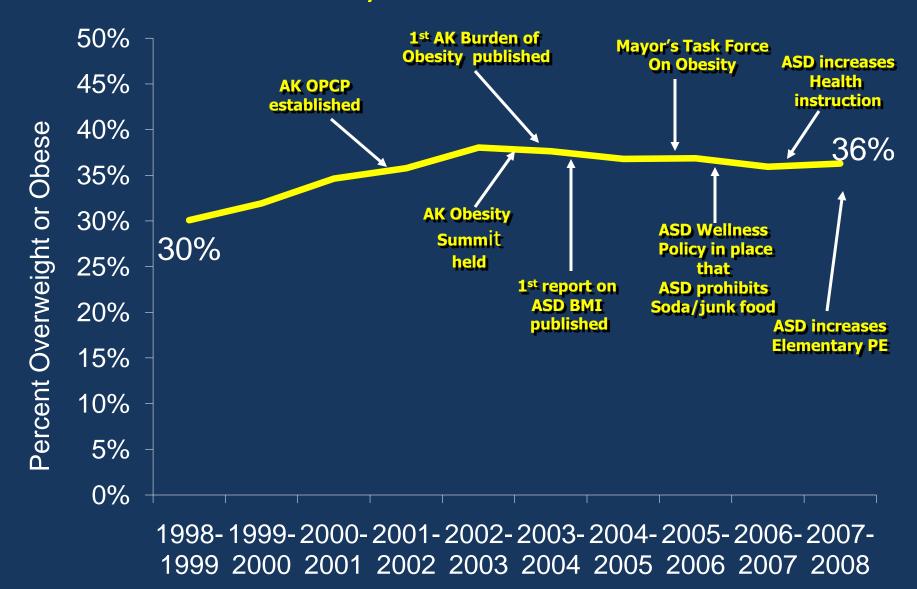
Prevalence of Overweight/Obesity, ASD Students, 1998-99 through 2007-08



Study Summary

- During 2007-08
 - 36% of ASD student were above normal weight (BMI ≥85th percentile)
 - 20% of middle and high school ASD students were
 obese (BMI ≥95% percentile)
- The increasing prevalence of obesity and overweight appear to have plateaued during the past 5 years
- Most children who entered ASD obese were still obese 10 years later
 - "They'll just grow out of it" doesn't appear to hold

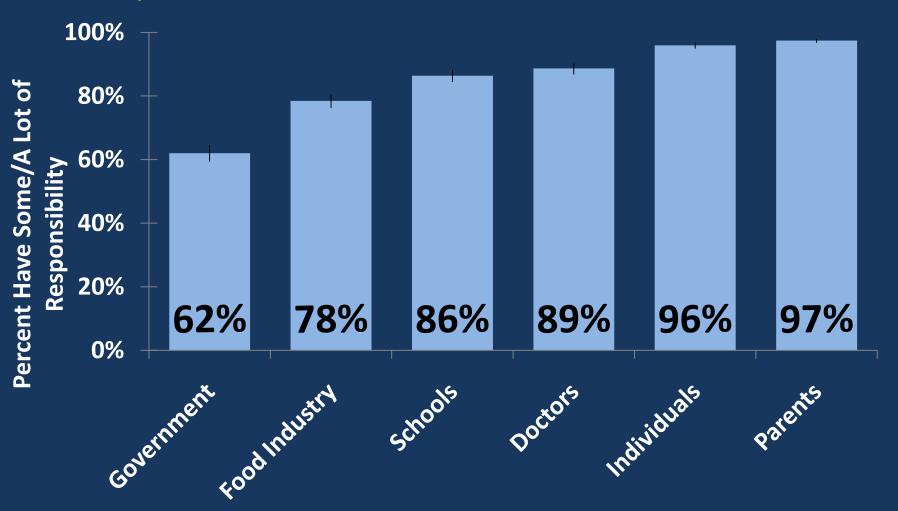
ASD Student Overweight and Obesity Prevalence in Alaska and Selected Obesity-Related Events – AK 1998-2008



Final Thoughts

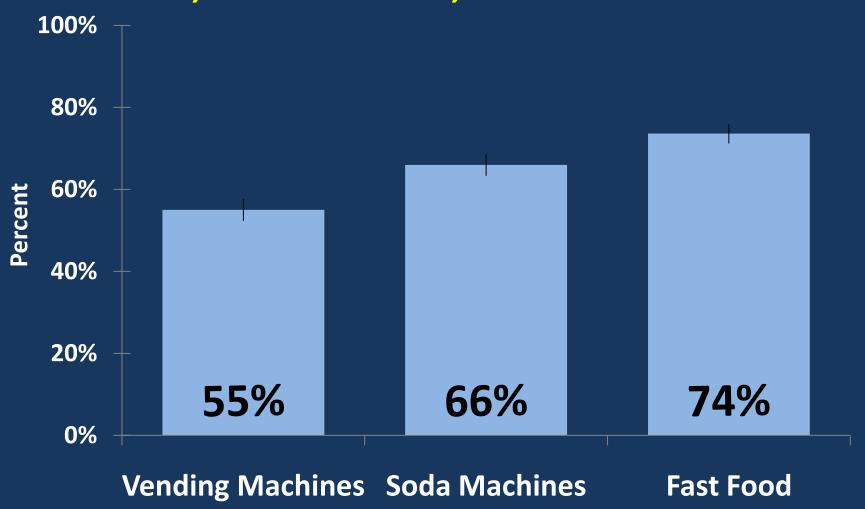
- Tobacco's lesson
- Big, fat ship and no silver bullets
- Public Support
 - A national survey commissioned by ACSM found:
 - 94 percent of Americans feel a national <u>physical</u> activity plan is important in helping citizens avoid chronic conditions and diseases.
 - 97 percent of Americans think changes in health care system that <u>support disease prevention</u> <u>through physical activity</u> are important.

Percentage Who Believe Each Source Has Some or A Lot of Responsibility for Addressing Obesity in the US, Alaska Adults, 2005

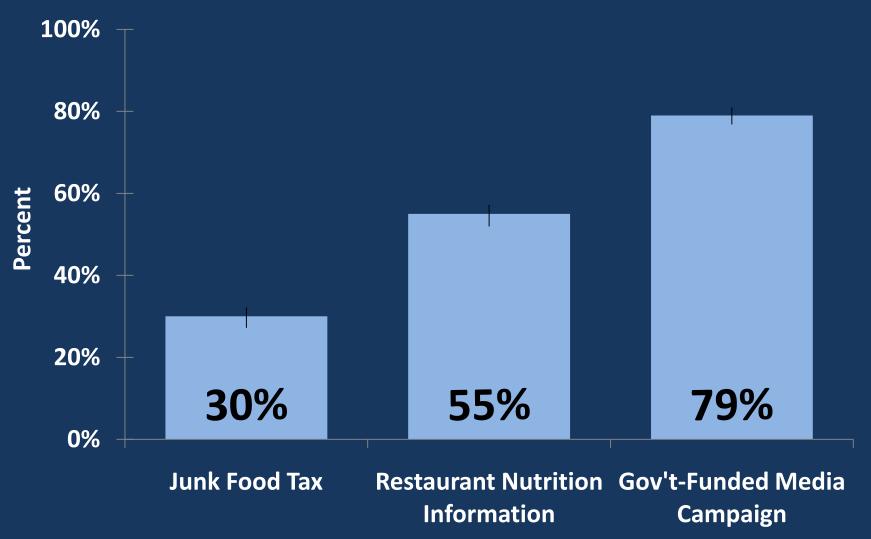


Source: AK BRFSS

Percentage Who Say Vending Machines, Soda Machines, and Fast Food Should Not Be Allowed in Schools, Alaska Adults, 2005



Percentage Who Support or Strongly Support Each Policy, Alaska Adults, 2005



Source: AK BRFSS